

## Intron 7 Base No.

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 53. TGTTCGCATGCACGCGTTTTCTTATCCTGAAATTTGTGGTGCATGACGCAACTGAACCT  
 113. CTCACACTGTAAGAGTTTCGCTATGAGACTTTGGGTGATCTGATTACGATTAATCAAT  
 173. TAAACACGAAGTAAAGCTCTTTCATGTCAGTATTAGTTAACCGTATATCTGTTGATAATG  
 233. AGATTAGTCCCATCAGTTTGATATTTTATTGAAACATATTTTCATATAGTATTGCTTGCA  
 293. TAAATGTTCAATTTGTATCTGTGCTTCTTACCTAAGAAGACCTCCCTTCTACGTTTCTT  
 353. TCTCCATGAAAGACAAGAAGATGTTGTGTAGCAAAATGGATAAGCAGAAAGAAATCTCAA  
 413. AGTCTGTGTAACATTTTCAGAGTAGCATGACTAAGGCAGGAGACAACAAAGTAAAGATATT  
 473. GAGAAGTAATCTGTGGCATCTCTCATCTTATGCTGTTTTTTCTAACAAACACAAAGGA  
 533. GAATAAATTACATTTTCATGAACATTTTGTATTAACTTCAGATAAAGTAAATTTATGGC  
 593. CTTTACACGATCTTGATTATTATGGATTCTGACTATTCCCTTTAAATGTTGAATTGTT  
 653. CACTTTTACCATTAGATCTCAATTCATCTACTTTCTTAGAAGAGCCACTCATTATTAT  
 713. ATTCACCAAGTAATTGTTAAATACCTAATATATGCTAATTGTACTAAGCACTGGAGATAG  
 773. AGCAGTCTTCTGAAAGTTATATCTAGCAGTAAAGATATACAATAAATTTAATAACCACA  
 833. TAAATTATACAATGTGGTAAATCTATAGAGGGATATAAGCAAGGGGGCATGGGTTGCT  
 893. AGAAGTTCAGTTTAGAATAATTAGGGCCGACTTCACTCAGAAGTTGTCATTGGAACATAAG  
 953. ACTTGAAGATTGAGAGCAATGTGGATACCTGGGTGATAATATCCAGATGACTGCAAAAGG  
 1013. CCCTGGGTAGGAACAAACACAGTGTGAGGAGGCTAATGAGGCCAAGTGAGTTCAG  
 1073. GGGAAAGTAGCAAGATAATGTTAGGGAAGAGGCTAAAGGATCACAAAGGGCTATTAC  
 1133. AAAGGGATGGTAGGCCACGACAAAGGCTTTGCTTTTATTGTAATGAAATAGCCATTGAC  
 1193. TGAGCATAAAAGTGGCATGATTGATTCTGTTTTAAAGGGATCACCTCGGCTACTGGGT  
 1253. TAAATTAATTAATGTTGGCTCAAGGATGGGAGGAAGGAGAAGAAATGACCTCTCAGGCTG  
 1313. AGTCAAGCACTGTGATATATACACTTGCAGTACCATAGACCTCCCTGTGTGTAGACTA  
 1373. ACCACAGTTATACTTTTGTCTTCTAGTGGTGTGATGCTCTTTCCCTTCAGCAATGA  
 1433. AAGATCCATGGAGGAAAGGTCCATATCTAGTTTATATCTGCAGTGTCTTGCAATGGGGAA  
 1493. TGGTGCTCAGTAAACATTTGCTGAATGAAAGAAGGAATAAATTTGCAATATCCCATTT  
 1553. TTCCAAAGTTGAACATGCTTTTTTGTATCTGATTACAGGAACAATAAATTAATTCATTAA  
 1613. CTTTTAGAACACATTTTAAATGCTTTTATGTGAGCAATTTATTACTAGTTTCAGAAA  
 1673. TACTTTAAATGAGATTAGATAAGTAGTAAATCAGCAATGTCAGTTTATTATATACG  
 1733. TATGATACAGGATCATCCGTAGTTGAAATGATGAAGAGAAAATGAACTGGAAAATGTC  
 1793. TCAAAATGACAGCTATAAAGAGGACACGAGAAATGTAAGATACCTGTATCTAAGACAA  
 1853. CCAAGGTTTTATGGGCGTGTCTCAGAAATCAATGCTCAGATTATTTTTTTATTCTGTAGC  
 1913. TGTCTCTTGGTGGAGTATAAAACAAAATAGAACTATGACATTATTACTACTGAGATAA  
 1973. AATTAAATCAGAAAACGTGTGCTCCCAAAATCATAGGAATGAAATTAACCTTCAGGAT  
 2033. GCGTTATTGGATAGTGTTTAAGGGCTGGATTCTGAGTCAGAAAGATTCTCATTCCAAT  
 2093. GGCAACTCTAATACTTTCCATCTGTGTGATCTTGACCTCTGAGCTTTGTCTATTTCACA  
 2153. TCACATTTTTTGCTACAAAGCTGGACTTTATCATATTACAGGACCTTGGACTTTTCAGTGCAT  
 2213. TTACCTTCCGATTACAGCTTAGAGGGAACACTACTTCCCACTGTCAAGAGATACCAACTCA  
 2273. ACAGGACAAACAATTACAGCCTGACCCAGTGTACATTTTCCATAAGCAGTCTTAGAATG  
 2333. CATCTGTGTTATTATCTAGGCATTATATGCTTAATGTGCTGATCCATATACATGAGGGC  
 2393. TATGATTCTGCTTCTCTGTTACCTCCACTCCAAATCCAGATGTTTATAATCATTTA  
 2453. TTGATATTGCTGTATAATGATTCTTAAATTCAGTACCTTGTGTTATTTTAATGA  
 2513. CTTCACTTCATCATTGAGTTGATTACTCTGAAAACCTTTAACTGGCATTCTTTTTT  
 2573. TTTTTTTTTTTTTTTGAGACGGAGTCTGTGTTGGCCAGCGGGAGTGCAAGTGGCG  
 2633. GGATCTCGGCTCACTGCAAGCTCCGCTCCCGGTTACGCGCATCTCTGCTCAGCCT  
 2693. CCCAGTAGCTGGGACTACAGGCGCCGCCATCAGCCCGGCTAATTTTTTTGTATTTT  
 2753. AGTAGAGACAGGGTTTACCCTGTTAGCCAGGATGGTCTCGATCTCTGACCTCGTGATC  
 2813. CACCGCCTCGGCTCCCAAGTGTGAGGATACAAGCGTGAGCCACCGCGCCGCGCCAA  
 2873. CTGGCATTCTTACTCTGCTGCTGCTTCTCCCATCATCCACTGTCAACACAGT  
 2933. GATTGTTCTAAATGCAAAATGCCCTTGTGTAAGCTGGCCCTGCTCCACATTGCCTT  
 2993. TAATTTTAAGTTCAAACTCCCATTAGGCTCTGCTGATGGCCCTTAACCTCCAGTCTTC  
 3053. TCACGATTCTTCCATCTGTCTTGAATGTACCCACAATGATTTTCCGAGACCATGGT  
 3113. AATGGACTGTGACTCTCCCAAAATCCAACCTTGATATAAAGCTCTCTCCACAGCAG  
 3173. TCCCCATAAGTCAAAATGACTTTTGACCCCACTTCTGGGTGCTGCTGGGTGACTTTCAC  
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 3293. AAAGTTGACCTAGAGTCTCTCCATATTCTGAATCTTACCTTACACATGTGCCATCAT  
 3353. AGCATTTAATTACGTTTTAACCCCGCACTAGATATATACTATAAATACAAAAATTTAA  
 3413. TTAAGAGAGGCAATCAACGTTTCAAGTATCACTGTAAAGCTAATTTATACCTATATCCATT  
 3473. CCCTATCTTAGGGCTGGCATGCAATAGTAAAGGCCAATAAATAGATTGTGGCATATATG  
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Fig 1a

## Intron 7 Base No.

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Fig 1b

Intron 8 Base No.1

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AGTGCCCAACAATGAGAAGATGCCCTGGATGTCAACAAGGTAAATTCAGAGGGCAAGCCC  
22. TCCTTGCTTCTTAACTCATGGAAGAATGCTAGCAATACAGGTTGATGACCTTGTGTAGC  
82. AAATGAGGAACCAAGCCAGGGAAGAGAATGGGTAATTTCCCAAAGCACACAACAA  
142. TTAATGATGGAAGCACAATTAGGGACCAAACTCATGACACAAGATTTGGATGCCCTTTCC  
202. ATTAACAAGAGGAGTGACCAACATGAGAAGACCTTTATGATGCTTTCTCACATATTGAG  
262. TATAGTACCTATAATTATTATGCAATCTTTAAATTTATTCAACTAATTTATTTAAAG  
322. GAAATTTAATGTTGCTTCAGTCAGTATTACTTGTCTGGACAATAGCTTTACAAATATATAA  
382. GTAACAAATTTAAAAAATATATCATTAAGTCTTAATTTATCTAGATGAAGTCTCTGGC  
442. CCTGAAATCTGCATTTCTTTGACTTAAAGGAAGATAAGCAAGTATACAGATGTGTAC  
502. AGACCCACCAAGCAACAACTGAGACTTTTTCTTTGAAGCGATCAGAAGAACATAAGAAG  
562. AGTAAGGGGGAAAGACAAATAATTTTCTCTTTAAATGACAATGCCCTTGACATATACC  
622. ACTTATCATTTGCAGCATTTGACTATATGAGGCCACCATCTTGGCTTAAGTCAGACATGGTC  
682. AAAGATTCCCAACAACTATAAACCCCTGTTATTGTTAAGTCAGTAGTTTCAATCATG  
742. GGTGCCAATGGAATGACCTGAACAGATTAACCAAAATCTGAAGCCTTGGTCCCCTCCC  
802. CAGAAAATCTGATTTGATTTTCTTGGAGAAAGCATGGGCAACACAATTTAAAAAGTTCC  
862. CCAAGTTATTCTAATCTGCATCCAAATTTGAGAATCACCACCTTTAAGGTTTTGTATGGTA  
922. GTCCAGTAGAGCCAGCTCTCTTACTCTCAATATTAACTTCACCTGGCTTCTCTGTAT  
982. AGCATTGCTGCACTAACAGAATCTTGTATATGATCTTCCAGAGGCCACATTTAGAC  
1042. CTTTAGCAATAGCCAAAGAAAAGCTTATTTTCATATCTGCCCTAAATCTGTTATGAA  
1102. GTAGTCTAATATTGGACCAATAAATAGTTTCATCATGATGGGACTAGGAAAACATTAAT  
1162. CAATCCTCTTAAACCATTTGGAATTATTAATTATAACAAAAGCTGATTTATCTCTGATG  
1222. TTTTGATATTTCTAACTCTCAATTAATTTCAAGGATAGCAAGTTATAAATACTCTGCCC  
1282. ATTGAGTTGATTTGGAGCAACCATATGGAAGCTTCAACTCAGTAATGTTTTTCACAT  
1342. ATCCATAGGTCTAATATTGGTTTTAGACTCTCTCTAATCCAAGGCACTCTTGCTTAG  
1402. AAGATGATATTGCAACAATGCAATTTTAAGTATGGCCCTTGGAAACCAAAAACCGTA  
1462. AGGGCTAGGAAATTTGCAAAATCTTCCACACCCCAAGGTTTTACTTATTGGAATCTGC  
1522. CAATAGATTCCAATTTACCATTTATGGTTCTCTCAGGCTGTCAATGAAAGAGTATTTCT  
1582. AAACCTATTTTCTGATTTTCATGACATAGTAGTCTTAGAGAAGAGAAGATAAATAA  
1642. TAAATAACAAACAAATAATGCTATCTCATAGGACTTCAAAATGAGTCTAAATCAATTGC  
1702. ATAATGAAAGGCTGACTTAATAAGATAACATCTGATCTCTTCACTTTTCATCTACCCATT  
1762. TTTTATACCAATTTGCATTTAAATGATAAAGTTAAGACCTAGAGGGAGGAGTTTTATAC  
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1882. CAGTTACCCCATAGTGGTGAAGGCTTATCTCTTGGTTGAAGGTAGACCCCTACCATTCA  
1942. AGTGAAGGAATGAGAGAACAAAAAGATACCAAGATTAATTTAGTATTTTTCAGTGGT  
2002. TCTCAAAACAGGGTCAATTTCTTCTCCAGAGGACATTAGGCATTGCTGGAGACATCTT  
2062. TCATTTTAAAAATATAGGATGAGGTTTACTACTGGTATCTAGTGTGTAGAGGCCAGGT  
2122. TGCTGTACACATTGGCAGTGTGCAGGATAGCTTCCCTGTAACCTTCTTGTTTTCAACA  
2182. TGAGAACTGAGGTACTGAAAAATAATATCCTTGTCTCTAATATTTCTTAGCAAAAT  
2242. TGTTTCTCCATTTTCTTTGAGCAGCATGTGAAGAATCAAGACATCATGAGTCATGGTT  
2302. AGAACAATGGTCTGAACAAATATTTAGAGTCAAGTTCAATATTACCTTCCCATTTAA  
2362. CAATGGGTGACAGTAGACAAAAAATTAGCCCTCTTGGCCCTTTAGTTTCTCATCTGT  
2422. GAAACAGGGTAAATTCCTCTCTTATAAAGTTACTCATGAACATAATGCTGATAATGTGCA  
2482. AAGAGGTAATATAGTCTCAATACATGGTAAGCACTCAGGAAGTGATAAATATTAATAA  
2542. AATATTAATAATATAAAGTGGTAGGCATTATTACTTTTAAAAATAAATTTGCAGTCCC  
2602. CATACTTATGGTGATGCTAGCGTGTGTCTTATATGCTCTACCATGTGGAATGCAGTA  
2662. GCATCCCTAAGCAGTGTATTGTTTAGACAGGAATGTTTTATGTTAGAAGTTTTAAAGTC  
2722. AAATCAAGAAATCATTTTCAAGGGTATTAGCTATAAAATCTATAGCAAACTCACTGC  
2782. ATCAAACTCTATTAATTTCTTATAGCAGAAAACTACAAACCATTTTGATTAGATTA  
2842. AAACAAATGCTGACCATCAAGCTTCCAGACTCCCACTATTCTTTGTTCAACCAGCAT  
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2962. TCATGAATAATACCAACCCCATTTCTTATCAAGAATGTCCCTTCTTTCAACTGTAATCT  
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3082. CTGGGAAATCAGGAGTGGGATTAATTTTTCACCTTCTTTGGTGATTTCTTAAAGATG  
3142. GAAGAGTGTGTGAGATTATCTAAAGTGATTTTGAAGTGTGCTGTCTGAGGTCAGG  
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3562. TTCCAACCTCAGTTGATTTCACTGAAAAATCCAGCTACCTGCACATGAAAGTTTATAAG  
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3922. CCCCCTACTCTCTTTAAGCTTTATATTGTTTCTTGTATTTTTCTGCCAAATACTA  
3982. AGAACACGCATATTTGAGAATCAAGTTATTCTGCGCTTTTACCACCGTGGTATTGTCAC  
4042. ATATCAAAATGCACCTGCAGCCAAACAGTTTCTAACTAAAGCTGCACACAGAGATCTCCA  
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4162. CATTGTGTGAATCTTTCTAATGTAAGCCACTAAGATATTTCAATCAATTTATTTCT  
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4282. ATTCTCTGTAGCCTTTATCTAAAGGATTTCTAAAGGCCAGTAGCATTATCTATATCCA  
4342. ATTTACTTTAACCATCAGGCTTAATCTAGTAGCATCAATCGACTTAATTAGCACATTTCT  
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Fig 2

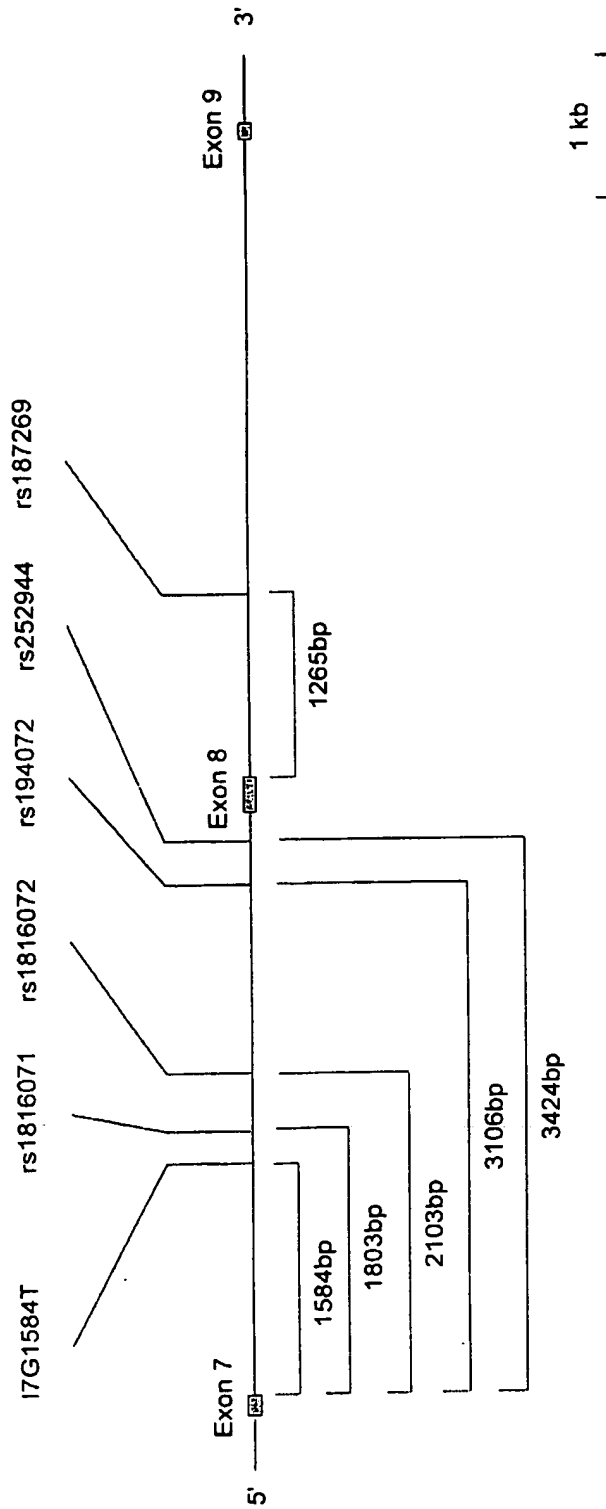
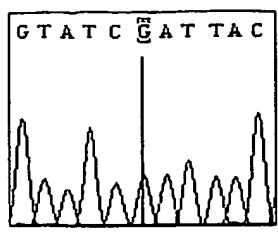


Fig 3

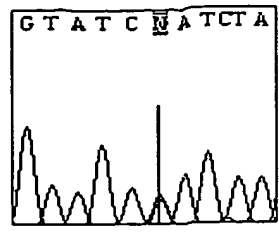
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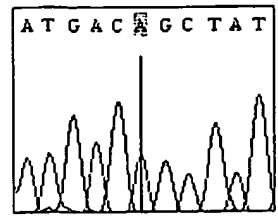
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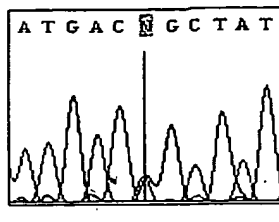
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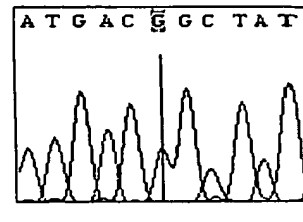
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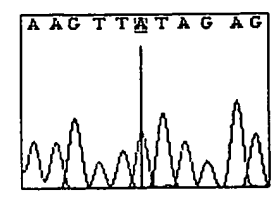
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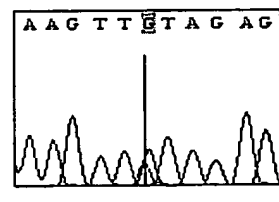
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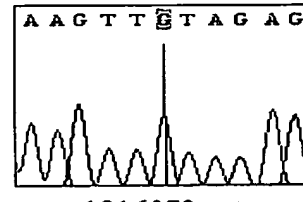
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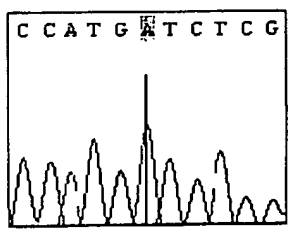
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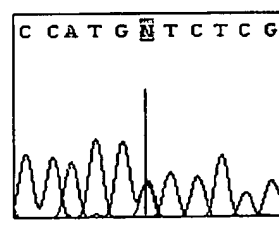
rs1816072 (T/C)



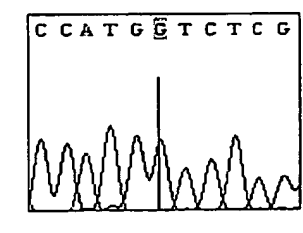
rs1816072 (C/C)



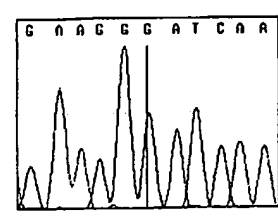
rs194072 (T/T)



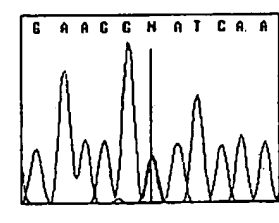
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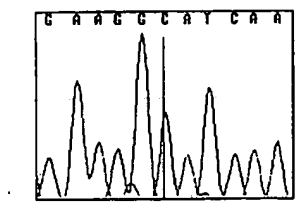
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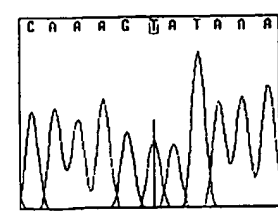
rs252944 (G/G)



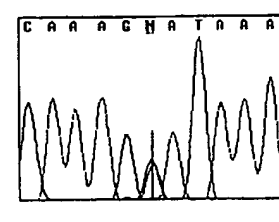
rs252944 (G/C)



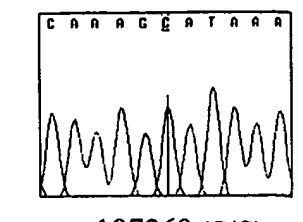
rs252944 (C/C)



rs187269 (T/T)



rs187269 (T/C)



rs187269 (C/C)

Fig 4